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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO. CONFIRMATION NO.	
09/528,000	09/528,000 03/17/2000 Shiri Kadambi		P108339-09065	3384
32294 7	590 05/16/2005	EXAMINER		
SQUIRE, SANDERS & DEMPSEY L.L.P. 14TH FLOOR 8000 TOWERS CRESCENT TYSONS CORNER, VA 22182			HOANG, THAI D	
			ART UNIT	PAPER NUMBER
			2667	
			DATE MAILED: 05/16/2003	5

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
	09/528,000	KADAMBI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Thai D. Hoang	2667				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	i6(a). In no event, however, may a reply be tim within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	nely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 12 November 2004.						
2a)⊠ This action is <b>FINAL</b> . 2b)□ This	This action is <b>FINAL</b> . 2b) ☐ This action is non-final.					
·	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-5</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.	· · · · · · · · · · · · · · · · · · ·					
6)⊠ Claim(s) <u>1-3 AND 5</u> is/are rejected.	·					
7)⊠ Claim(s) <u>4</u> is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examine	r.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
Attachment(s)						
) Notice of References Cited (PTO-892)	4) Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) b) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate atent Application (PTO-152)				

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### **DETAILED ACTION**

# Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35

U.S.C. 102 that form the basis for the rejections under this section made in this

Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors

Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology

Technical Amendments Act of 2002 do not apply when the reference is a U.S.

patent resulting directly or indirectly from an international application filed before

November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIP3A (pre-AIPA 35 U.S.C. 102(e)).

Claims 1-2 and 5 are rejected under 35 U.S.C. 102(e) as being unpatentable over Schwartz et al, US Patent No. 6,434,115 B1, hereafter referred to as Schwartz.

Regarding claim 1, Schwartz discloses a system and method for switching packets in a network. Schwartz discloses that the system comprising:

a switching node (fig. 1; element 11) that receives a plurality of incoming data packets (25xx) at a plurality of input ports (20s) for transmission the data packets to a plurality of output ports (21s), wherein the switching node 11 is one

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of a plurality of switching nodes 11s configured in a stack; see fig. 1 and 2 (receiving an incoming packet on a first port of a network switch for transmission to a destination port);

an input queues 41(n) couples the meta-data packets enqueued therein in order to the packet pass/drop circuit 42(n). The packet pass/drop circuit 42(n) makes a pass/drop determination based on status information for the output port module 21(n) associated with the processor module 40(n), which is stored in the output port module(n) status information store 43(n). The output port status information stored in the store 43(n) reflects the output port module's operational status, in particular its capacity at any point in time to receive additional packets from the input port modules 20(n) for transmission, and may be a function of the amount of buffering that the output port module 21(n) has available to packets retrieved from the input port modules 20(n) for transmission or drop packets if the capacity of the buffer is not available; col. 11, line 47-col. 13, line 2 (determining if said destination port is a monitored port; determining a queue status of said destination port, if said destination port is determined to be a monitored port; prescheduling transmission of said incoming packet to said destination port if said destination port is determined to be a monitored port; wherein the step of prescheduling transmission comprises dropping said incoming data packet only when the queue status of the destination port indicates that a queue for the destination port is full).

Regarding claim 2, Schwartz discloses that the status of the output ports are monitored stored in the store 43(n), and the pass/drop circuit 42 (n) makes

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pass/drop determination based on this information; col. 12, lines 16- col. 13, line 2 (classifying said queue status of said destination port; and taking action in accordance with said classification of said queue status).

Regarding claim 5, Schwartz discloses the status information in the provide store 43(n) is provided by the associated output port module 21(n), as represented by the OP\_PORT (n)\_STATUS output port (n) status signal, which forms one of the OUT(n)\_CTRL/STATUS output (n) control/status signals; col. 12, lines 23-30 (determining if said destination port is a monitored port further comprises the step of receiving a status message on a communication channel)

# Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Schwartz et al, US Patent No. 6,434,115 B1, in view of Zheng et al, US Patent No. 6,611,522 B1, hereafter referred to as Schwartz and Zheng respectively.

Regarding claim 3, Schwartz discloses a system and method for switching packets in a network. Schwartz discloses that the3 system comprising:

a switching node (fig. 1; element 11) that receives a plurality of incoming data packets (25xx) at a plurality of input ports (20s) for transmission the data packets to a plurality of output ports (21s), wherein the switching node 11 is one

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of a plurality of switching nodes 11s configured in a stack; see fig. 1 and 2 (receiving an incoming packet on a first port of a network switch for transmission to a destination port);

an input queues 41(n) couples the meta-data packets enqueued therein in order to the packet pass/drop circuit 42(n). The packet pass/drop circuit 42(n) makes a pass/drop determination based on status information for the output port module 21(n) associated with the processor module 40(n), which is stored in the output port module(n) status information store 43(n). The output port status information stored in the store 43(n) reflects the output port module's operational status, in particular its capacity at any point in time to receive additional packets from the input port modules 20(n) for transmission, and may be a function of the amount of buffering that the output port module 21(n) has available to packets retrieved from the input port modules 20(n) for transmission or drop packets if the capacity of the buffer is not available; col. 11, line 47-col. 13, line 2 (determining if said destination port is a monitored port; determining a queue status of said destination port, if said destination port is determined to be a monitored port; prescheduling transmission of said incoming packet to said destination port if said destination port is determined to be a monitored port; wherein the step of prescheduling transmission comprises dropping said incoming data packet only when the queue status of the destination port indicates that a queue for the destination port is full). Furthermore, Schwartz discloses that the status of the output ports are monitored stored in the store 43(n), and the pass/drop circuit 42 (n) makes pass/drop determination based on this information; col. 12, lines 16-

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col. 13, line 2 (classifying said queue status of said destination port; and taking action in accordance with said classification of said queue status). Schwartz does not disclose that the step of classifying queue status based on predetermined levels. However, Zheng discloses a system, wherein the data output of the system is operated based on three levels of output queue status; figs. 30 and 31; col. 27, lines 5-25. It would have been obvious to one of ordinary skill in the art at the time the invention was made to adapt queuing level method disclosed by Zheng into Schwartz's system in order to control output data effectively because congestion or bottleneck in the system is avoided.

## Allowable Subject Matter

Claim 4 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

### Response to Arguments

Applicant's arguments filed 11/12/2004 have been fully considered but they are not persuasive.

Regarding claim 1, page 4 of the remarks, Applicants argue that the reference does not disclose the network switch "is one of a plurality of network switches configured in a stack." Examiner respectfully disagrees. According to the application, pages 99-101, and figures 26-27, the statement "network switches configured in a stack" recited in the claim 1 is interconnection between a plurality of switches. In the telecommunication art, the stacked switching system allows each switch connects with other switches in a determined topology

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(ring, star, daisy-chaining, mesh, loop...). Therefore, the interconnection of a plurality of the switches in figures 1-2 of the reference is a stacked switching configuration. In addition, all network elements (routers, switches, hubs...) are stackable for expanding or increasing the capacity of the network without replacement current devices.

In response to applicant's argument that there is no suggestion to combine the references, the examiner recognizes that obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See *In re Fine*, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988) and *In re Jones*, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992). In this case, one of ordinary skill in the art would be able to modify Nishio's system by adapting to it the method of classifying queuing status based on buffer level disclosed by Zheng into Schwartz's system in order to control output data effectively because congestion or bottleneck could not be occurred in the system.

#### Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thai D. Hoang whose telephone number is (571) 272-3184. The examiner can normally be reached on Monday-Friday 10:00am-18:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi Pham can be reached on (571) 272-3179. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Thai Hoang

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